DISCLOSURES UNDER CONSIDERATION

Philip Morris Incorporated
Privileged and Confidential

1 July 1981

Code 1 - Offensive/Urgent
Code 2 - Defensive/Urgent
Code 3 - Offensive/Normal
Code 4 - Defensive/Normal

653 A METHOD FOR PREPARING A RECONSTITUTED TOBACCO PRODUCT USING PRECIPITATION/COAGULATION OR CROSS-LINKING TECHNIQUES

G. Keritsis
Tobacco Materials/Burns/Gannon

The disclosure relates to smoking materials and the processes for making them through the use of extrusion and/or coating techniques for tobacco smoking formulations.

Related to PM 641; see also 689.

Inskeep

1-9-81	New examples received from inventor.
1-19-81	File reopened.
2-19-81	Further write-up received from inventor.
3-31-81	Further write-up received from inventor.
4-10-81	Disclosure materials to Depaoli for evaluation.
4-21-81	Disclosure materials returned by Depaoli--possible conflict of interest.
5-18-81	Recommend sending to F&N ASAP.
6-25-81	Disclosure to F&N for evaluation.

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0000016092

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

689 CROSS-LINKED SMOKING MATERIAL

G. Keritsis
Tobacco Materials/Burns/Gannon

Tobacco or non-tobacco materials are treated by spraying, dipping, coating, or homogenizing certain classes of compounds capable of reacting with a substrate or of forming water-insoluble films or coatings with a substrate. Filling capacity, structure stabilization, moisture insensitivity, strength (wet and dry), and processability are improved.

Related to 641; see also 653.

Inskeep	
11-80	New data received.
12-80	Split out of 641--new data to WLKT for consideration.
5-18-81	Recommend sending to F&N ASAP.

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779 MEANS TO MEASURE TOBACCO FIRMNESS ON CIGARETTE MAKER

J. Osmalov
Tobacco Services/Osmalov/Gannon

A cigarette rod firmness control device has a firmness detector head comprising a differential transformer coupled to a detector shoe, which is biased toward and rides on a dynamically-flowing rod of tobacco. The detector shoe is displaced to and from the axial center lkine of the tobacco rod in response to the firmness of the rod, which is dependent on the rate of flow of tobacco into the rod forming garniture. The tobacco feed rate into the rod forming garniture is increased or decreased in response to signals generated by the level and the variations of rod firmness at the detector shoe to control rod firmness to within desired limits.

Sarofeen	
5-25-77	Disclosure received. Given to G. Brandt.
2-8-80	Memos from Gannon to Palmer and Kothe re status.
2-12-80	GMJS expects to receive a written analysis/opinion from Brandt that this disclosure is anticipated.
3-7-80	Opinion received.
3-11-80	Inactivated pending further developments.
7-18-80	Reactivated, new information on its way.
7-21-80	New information received.
9-4-80	Need more details of short tongue construction.
11-5-80	New data not yet compiled--per C. Irving.
1-15-81	No new data at this time.
6-24-81	Instrumentation received and new design is in the making.

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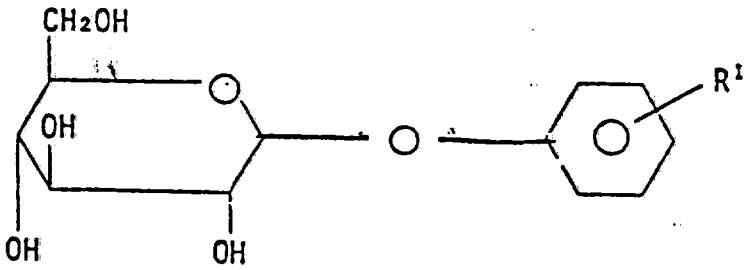
ϕ0000016093

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

787 USE OF PHENOLIC GLYCOSIDES AS FLAVORANTS IN TOBACCO

E. Sanders
R&D/Chemical Research/Osdene

Compounds having the formula:



are added to tobacco in the range of about 0.02 - 0.5%. On smoking, said compounds pyrolyze between about 250 -350°C to release the desired phenol as the only volatile product. The phenolic glycoside tobacco flavorants disclosed herein are particularly advantageous in that they are odorless and can be used in any desirable amount without adversely affecting pack aroma.

INACTIVE D&O/Hutcheson
CODE 4

7-21-77	Disclosure received.
9-19-78	Disclosure to D&O for evaluation.
10-78	Search received from D&O.
3-79	Further development work being done by inventor.
9-79	Synthetic routes are being developed according to the inventor.
1-25-80	Inventor believes sufficient information is available to prepare application.
3-11-80	Search results sent to inventor for review.
3-14-80	Inventor will redraft disclosure and resubmit to Depaoli for application preparation.
6-8-80	Inventor indicated that he hoped to have something ready shortly.
7-16-80	Memo to inventor indicating that disclosure has been removed from active docket pending submission of additional information.
10-14-80	Inventor reminded of need for additional information.
7-1-81	Inactivated pending receipt of additional information.

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ϕ0000016094

Source: https://www.industrydocuments.ucsf.edu/docs/zsbj0000

796 BIOSYNTHESIS OF A TOBACCO FLAVORANT OR TOBACCO SMOOTHER--FERMENTED TOBACCO

B. Semp, D. Teng, and S. Tenhet
Biomaterials/Whidby/Farone/Lowitz

Organisms obtained from fermented tobacco are transferred into sterile tobacco extracts and by employing various fermentation techniques, flavorants similar to those present in fermented tobacco are produced. These flavorants may then be applied to various tobacco materials to enhance or enrich their subjective organoleptic characteristics.

Palmer (Hutcheson)/to be reassigned
CODE 2

10-28-77	Disclosure received.
8-78	Preliminary search completed on PM data base.
3-79	Experimental work underway.
9-6-79	Additional art found on "accelerated fermentation" and forwarded to inventors. Similar concepts disclosed in US 516778 and 1262622.
9-10-79	Memo to inventors reviewing prior art.
9-79	Search requested from outside firm.
10-15-79	Search received; results under evaluation; report to be written.
6-24-80	Memo to inventors requesting a review of memo dated 10 September 1979. Awaiting response regarding search results.
7-24-80	Report of search results written by B. Monroe and sent to inventors.
9-10-80	No response yet from inventors regarding search results.
3-2-81	Note to Dr. Farone regarding status; he responded indicating that this particular concept will be actively pursued.
6-29-81	Recommend sending to F&N.

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0000016095

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

800 COLOR AND ODOR REMOVAL FROM UNCURED TOBACCO

B. Semp and D. Teng
Biomaterials/Whidby/Farone/Lowitz

Green tobacco is treated with a lipase enzyme to remove lipids. The green odor is eliminated and smoking quality improved.

Palmer (Hutcheson)/to be reassigned
CODE 2

11-10-77	Disclosure received.
8-78	Preliminary search completed on PM data base.
3-79	Experimental work completed.
9-11-79	Search requested from outside firm.
10-15-79	Search received; results under evaluation; report to be written.
6-15-80	Preliminary draft underway.
7-7-80	Examples to inventors for review; specific information was requested.
7-24-80	Search report written by B. Monroe and sent to inventors.
9-10-80	No comments from inventors at this time re memo of 7-7 or search results.

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ϕ00016096

Source: https://www.industrydocuments.ucsf.edu/docs/zsbj0000

816 COPOLYMER POSSESSING WATER AND/OR ETHANOL SOLUBILITY FOR MAKING SMOKING COMPOSITIONS

W. Johnson, Jr. and H. Grubbs
R&D/Chemical Research/Sanders/Osdene

Monomers of flavor-release polymers are mixed with monomers containing polar groups and copolymerized to give a copolymer which possesses water and/or ethanol solubility. Typically the copolymerizations are carried out in bulk using free radical catalysts. Smoking compositions are treated with the polymers by spraying or by incorporating in reconstituted tobacco.

INACTIVE Hutcheson
CODE 2

3-2-78	Disclosure received.
8-78	Discussed with inventors.
3-79	Awaiting completion of example work and smoking data.
8-79	Inventors indicate experimental work is proceeding and subjective evaluation should be completed by the end of the year.
1-24-80	Experimental work completed.
3-11-80	Requested guidance from Dr. Sanders in obtaining necessary information to prepare application.
4-15-80	Inventor Grubbs will organize available data so that we can proceed.
7-16-80	Memo to inventor indicating that disclosure has been removed from active docket pending submission of experimental data.
10-14-80	Inventor reminded of need for additional information.
7-1-81	Inactivated pending receipt of additional information.

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Φ0000160972

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

836. BONDING OF POLYPROPYLENE WRAP TO ITSELF BY LASER IRRADIATION

W. Farone, A. Lilly, Jr., P. Martin, and W. Claflin
PhysicalResearch/Kassman/Farone/Lowitz
Cigarette Development/Gauvin/Meyer

Techniques for bonding two sheets together at high speed using focussed (2 focal length) CO_2 laser beam. Bonded area around 0.008 diameter. with reflecting foil beneath the wraps speed for bonding was 590 feet/minute with 40-60 watts power.

Sarofeen
CODE I

5-23-78	Disclosure received.
7-12-78	Search requested from outside firm.
7-28-78	Search received--sent to Farone for evaluation. Final disclosure details expected following testing.
11-1-78	Meeting with Farone et al--special laser has to be ordered.
8-79	Testing now in progress.
11-19-79	Laser has been received and testing is active.
1-24-80	Memo to Farone indicating that work is progressive.
6-27-80	Work is still proceeding--waiting for further details.
9-4-80	Disclosures now in process of preparation by inventors.
1-15-81	Disclosure not received to date.

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Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

840 METHOD FOR REDUCING CO DELIVERY IN NONFILTERED CIGARETTES

R. Ikeda
Cigarette Development/Gauvin/Meyer

A cigarette is made with a wrapper selected to pass through it gases of specific molecular size. Ducts are provided for passing a maximum of the smoke volume contiguously to the wrapper to maximize transfer of the said gases through the paper. Small gas molecules exit into the ambient air and out of the smoke stream prior to entering the smoker's mouth.

Sarofeen
CODE 4

6-23-78	Disclosure received. Awaiting tests by inventor to develop method. Close art. New disclosure to be submitted by Ikeda and Houck.
8-30-79	Talked with Houck--project still alive but the way to go with the construction is still being determined.
4-14-80	Waiting for further details.
9-4-80	New details not received to date.
11-4-80	Reviewed latest Filtrona samples with Ikeda.
1-15-81	New details not received to date.

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0000016099

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

849 POLYMERS FOR IMPROVING FLAVOR AND AROMA OF SMOKE

H. Grubbs, T. Van Auken, and W. Johnson, Jr.
R&D/Chemical Research/Sanders/Osdene
Physical Research/Kassman/Lowitz/Farone

Polymers of unsaturated aliphatic, aromatic carbonates can be prepared in ways similar to the preparations of unsaturated aliphatic, aliphatic carbonates as disclosed in 687. These polymers, when added to cigarette filler, on smoking liberate phenolics to the smoke stream, which improve the flavor and aroma of the smoke.

Spin-off of 687.

INACTIVE Hutcheson
CODE 3

9-29-78	Disclosure received.
11-6-78	Examples being prepared; synthetic process under development.
9-4-79	Subjective smoking results to be generated to complete project.
1-24-80	Subjective smoking results not yet available.
3-12-80	Memo to Sanders requesting guidance in dealing with this disclosure.
3-18-80	Memo to inventors requesting examples and smoking data.
7-16-80	Memo to inventor indicating that disclosure has been removed from active docket pending submission of experimental data.
10-14-80	Inventors reminded of need for additional information.
7-1-81	Inactivated pending receipt of additional information.

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ϕ00016100

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

850 POLYMERS OF NICOTINE AND NICOTINE ANALOGUES

W. Johnson, Jr.
R&D/Chemical Research/Sanders/Osdene

Polymers of nicotine analogues and of nicotine itself, which possess carbonate or ester linkages, are to be prepared from suitable substituted nicotines via condensation reactions. The polymers would consist of nicotine moieties, moieties of substituted nicotines joined by ester linkages or of nicotinic esters that have been condensed with appropriate diols, which may or may not be nicotinic in character but which in combustion and/or pyrolysis will yield nicotine and products that do not adversely affect cigarette smoke.

INACTIVE Hutcheson
CODE 4

9-29-78	Disclosure received.
11-6-78	Search completed--to inventor for review. Awaiting more definitive information and examples.
9-4-79	Project in preliminary stage.
1-25-80	No experimental data available.
3-12-80	Memo to Sanders requesting assistance in dealing with this disclosure.
7-16-80	Memo to inventor indicating that disclosure has been removed from active docket pending submission of experimental data.
10-14-80	Inventor reminded of need for additional information.
7-1-81	Inactivated pending receipt of additional information.

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856 ELECTRON BOMBARDMENT FOR CONTROLLING BEETLE INFESTATION

R. de la Burde
Tobacco Materials/Burns/Gannon

Related to earlier Laszlo case.

INACTIVE Palmer
CODE 4

10-18-78	Disclosure received.
10-20-78	Awaiting further data.
1-14-80	No further results to be expected--Burde.
2-8-80	Memo from Gannon re status; 2-12-80 Palmer reply.
4-13-81	Inactivated.

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ϕ00016101

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

879 PRODUCTION AND USE OF REACTION FLAVORS FROM YEAST HYDROLYSATE AND SUGARS

B. Semp, L. Wu, and J. Swain
Flavor Development/Daylor/Meyer
Biomaterials/Whidby/Farone/Lowitz

Reaction flavors for smoking products are disclosed. The flavors are prepared by reacting reducing sugars and selected hydrolysates of single-cell protein optionally in the presence of an aldehyde in an essentially solvent-free system. The thus prepared flavors may be incorporated into smoking compositions including tobacco, reconstituted tobacco, non-tobacco substitutes or mixtures thereof.

Palmer (Hutcheson)/to be reassigned
CODE 2

3-20-79	Disclosure received.
4-80	Spoke with inventor Wu, and she will submit the necessary experimental data.
5-8-80	Additional information and subjectives submitted and discussed with inventor Wu.
6-27-81	Recommend sending to F&N.

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880 USE OF B-DIKETONES TO FORM DIHYDROPYRIDINES AND PYRIDINES

F. DeBardeleben
R&D/Chemical Research/Sanders/Osdene

Pyridines and dihydropyridines are synthesized from B-diketones. For example, reaction of acetylacetone with ethyl B-amino crotonate would generate 2,4,6-triethyl nicotinic acid and 2,4,6-trimethyl nicotinates.

INACTIVE Hutcheson
CODE 4

3-23-79	Disclosure received.
9-20-79	Search by TPI requested. TPI awaiting input from Dr. DeBardeleben before search is conducted.
3-17-80	Memo to inventor asking him to supply information to TPI for search.
7-16-80	Memo to inventor indicating that disclosure has been removed from active docket pending submission of additional information.
10-14-80	Inventor reminded of need for additional information.
7-1-81	Inactivated pending receipt of additional information.

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Φ00016102

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

882 USE OF TRANS 2-PENTENAL TO GENERATE THE PYRIDINE RING

F. DeBardeleben
R&D/Chemical Research/Sanders/Osdene

Synthetic routes for preparing nicotine analogues are disclosed wherein the pyridine ring is generated by reacting trans 2-pentenal with, for example, 3-amino crotonate. Various 2,4-dialkyl-nicotines may be prepared.

INACTIVE Hutcheson
CODE 4

3-23-79	Disclosure received.
9-20-79	Search by TPI requested. TPI awaiting input from Dr. DeBardeleben before search is conducted.
3-17-80	Memo to inventor asking him to supply information to TPI for search.
7-16-80	Memo to inventor indicating that disclosure has been removed from active docket pending submission of additional information.
10-14-80	Inventor reminded of need for additional information.
7-1-81	Inactivated pending receipt of additional information.

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894 USE OF PIPERAZINES AS FLAVORANTS AND/OR COOLING COMPOUNDS

W. Edwards and Y. Houminer
Chemical Research/Sanders/Osdene

Tobacco flavorant and/or cooling compounds selected from 1,4-disubstituted pyrazines and alkylpiperizines wherein the 1,4-substituents are acyl, sulfonyl and carbamido are disclosed.

Palmer (Hutcheson)/to be reassigned
CODE 4

5-7-79	Disclosure received.
11-20-79	Experimental and synthesis work completed; analytical smoking data will be obtained in the near future.
3-14-80	Sanders indicated that the work was near completion. A draft should be ready shortly.
9-10-80	Houminer indicated that they will organize data and submit for application.
4-13-81	Formal disclosure being prepared by Houminer.

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bj0000161 03

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

895 1,2- AND 1,4-DIHYDROPYRAZINES (II III) AS FLAVORANTS AND/OR COOLING COMPOUNDS

W. Edwards and Y. Houminer
R&D/Chemical Research/Sanders/Osdene

Tobacco flavorant and/or cooling compounds selected from 1-substituted-1,2-dihydropyrazines and 1,4-disubstituted dihydropyrazines, wherein the 1- and 4-substituents are acyl, sulfonyl and carbamido.

INACTIVE Hutcheson
CODE 4

5-7-79	Disclosure received.
11-20-79	No experimental or synthesis data available at this time.
3-80	No data available for draft purposes at this time.
7-16-80	Memo to inventor indicating that disclosure has been removed from active docket pending submission of additional information.
10-14-80	Inventor reminded of need for additional information.
7-1-81	Inactivated pending receipt of additional information.

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896 FLAVOR-RELEASE AGENTS ON TOBACCO

W. Johnson, Jr. and H. Grubbs
R&D/Chemical Research/Sanders/Osdene

Polymeric sulfur release flavorant compounds are disclosed as being useful in smoking products. Processes for their preparation and use on tobacco are detailed.

INACTIVE Hutcheson
CODE 4

5-8-79	Disclosure received.
9-5-79	Preliminary synthesis work underway.
1-24-80	Synthetic work completed; subjectives to be done in near future.
3-14-80	Data to be submitted by inventors as soon as possible.
7-16-80	Memo to inventor indicating that disclosure has been removed from active docket pending submission of additional information.
10-14-80	Inventor reminded of need for additional information.
7-1-81	Inactivated pending receipt of additional information.

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Φ0000016104

Source: https://www.industrydocuments.ucsf.edu/docs/#bj0000

897 SYNTHESIZING PYROLYTIC PRECURSORS TO PRODUCE ALDEHYDIC-TYPE FLAVORANTS

M. Bourlas and H. Grubbs
Chemical Research/Sanders/Osdene
Analytical Research/Bourlas/Farone/Lowitz

Polymeric flavorants release compounds having controlled thermal decomposition properties producing aldehydic-type flavorants on combustion are disclosed. Prior to smoking, the compounds are non-volatile and non-migratory.

Palmer (Hutcheson)/to be reassigned
CODE 2

5-7-79	Disclosure received--lacks detail.
9-4-79	Preliminary synthesis of monomers underway.
1-25-80	Examples prepared for subjective evaluation.
3-80	Inventors hope to complete this project by the end of August.
6-30-80	Project being actively persued by inventor Grubbs and assistant. Should be completed by end of summer.
9-10-80	Monomer synthesized and attempts to polymerize underway according to Grubbs.
6-17-81	Grubbs indicates that experimental work is nearly completed.

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0000016105

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

915 MEANS FOR REDUCING SPHERICAL ABERRATION IN A LENS

D. Lowitz
Applied Research/Farone/Lowitz

This is directed to facilitate micro images with a CO2 laser perforator which produces an invisible beam, or to generally focus invisible beam laser. When using a lens to focus a laser beam, a second or additional element may be provided that is essentially a lens element in its basic construction, but which does not have any center portion. Because lens elements of a finite size and thickness normally introduce spherical aberration, such an additional element that does not have a center region of material can be used together with the primary lens element to modify the effective focal length of the outer portion of the primary lens and to make it equal to the center portion of the primary lens, and thereby eliminate sperical aberration and permit focusing to a spot.

INACTIVE Sarofeen
CODE 2

8-27-79	Disclosure received--inventor notified.
9-5-79	Disclosure assigned to Sarofeen.
11-20-79	Inventor is preparing technical data.
1-24-80	No further material received to date.
4-14-80	Inventor considering advanced design.
9-4-80	Inventor now preparing new disclosure.
1-15-81	New disclosure not yet received.
6-25-81	Inactivated pending receipt of further information.

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925 NWA IMPROVEMENTS

W. Nichols
Cigarette Development/Gauvin/Meyer

Sarofeen

9-14-79	Disclosure logged in - inventor notified.
1-24-80	One case (PM 914, Gergely) based on these improvements has been filed.
4-14-80	Awaiting further disclosures and developments.
6-27-80	Awaiting further disclosure and developments.
9-4-80	New material not yet received.
1-15-81	Inventor awaiting input re permission to disclose further data.

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0000016106

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

941 EXTRACTION AND DENITRATION OF BURLEY STRIP

S. Muller
Tobacco Materials/Burns/Gannon

Burley strip enters the washer at the end opposite the press section. The strip is sandwiched between two porous belts and immersed in the extraction medium. Upon exiting the washer, the belts and the strip are passed through a press section to remove excess liquor. Each of the washer's two porous belts has a tensioning device to compensate for changes in length during processing. The washer operates at a continuous wash rate of 200-300 pounds per hour.

INACTIVE Blish

11-20-79	Disclosure received - inventor notified.
1-21-80	Assigned to Hutcheson; discussed with manager.
3-80	Close art found on apparatus aspects of the invention.
5-19-80	Memo to inventor and others requesting that they consider prior art and distinguish the apparatus previously disclosed.
7-30-80	Sent informal note to K. Burns regarding resolution of this disclosure.
1-26-81	Case reassigned to Blish.
5-18-81	Blish to discuss with inventor.
5-19-81	Inactivated due to prior art.

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942 COMPOUND TO ADD TO TOBACCO TO PRODUCE NICOTINE UPON SMOKING

W. Chan
Chemical Research/Sanders/Osdene

Nornicotine and ethyl bromoacetate reacted to give ethyl 2-(3-pyridyl)-pyrrolidylacetate. Hydrolysis of the acetate gave the corresponding acid. Preliminary pyrolytic data indicated the acid will decarboxylate in good yield to give nicotine at a temperature as low as 200°. Polymerization of the isopropenyl ester will produce a resin which on pyrolysis should give nicotine.

Related to 703.

INACTIVE Inskeep

11-21-79	Disclosure received - inventor notified.
12-79	Assigned to Inskeep.
1-2-80	Copy of disclosure sent to Depaoli re PM 703.
3-25-80	Latest information, examples will be forthcoming.
11-24-80	Inventors trying to make compounds that perform.
4-9-81	Inactivated per E. Sanders.

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TI0001610

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

947 COOLING COMPOUND

F. DeBardeleben
Chemical Research/Sanders/Osdene

INACTIVE Hutcheson

10-79	Disclosure made informally to S. Hutcheson
1-80	Disclosure logged in--inventor notified.
1-21-80	Assigned to Hutcheson; inventor working on synthesis of compounds.
3-17-80	Memo to inventor asking him to supply information to TPI for search.
7-16-80	Memo to inventor indicating that disclosure has been removed from active docket pending submission of additional information.
10-14-80	Inventor reminded of need for additional information.
7-1-81	Inactivated pending receipt of additional information.

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952 PORTABLE PROGRAMER SYSTEM

W. Smick
Engineering/Cashwell/Kay/Pasquine

Object: This unit provides a quick and easy means of operating a piece of equipment, under prototype conditions, to develop an operating sequence and test the equipment at a minimal cost. Description: A portable programmer system is being used to provide electrical control and power to operate the Malaucene rewinder and optical table. This system incorporates a Texas Instruments programmable controller on various 6MI I/O components as well as conventional power equipment.

Divided out of 892.

INACTIVE Sarofeen

2-18-80	Disclosure received--Kay notified.
6-27-80	New disclosure being prepared by inventor.
9-4-80	Inventor is not ready with best mode.
11-5-80	New disclosure not received to date.
1-15-81	New disclosure not received to date.
6-25-81	Inactivated per inventors instructions.

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0000016108

Source: https://www.industrydocuments.ucsf.edu/docs/esbj0000

961 CIGARETTE PACKAGING

Engineering/Kay/Pasquine

Open-ended, semi-rigid outer sleeve for packaging cigarettes.

Palmer

4-16-80	Disclosure received from J. Kay--notified.
4-16-80	Search requested from outside firm.
5-9-80	Search received.

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977 RL BLENDING

J. Osmalov and F. Sherwood
Tobacco Services/Osmalov/Gannon

At the present time RL and BL are produced in sheet form and then subsequently threshed or cut into squares which are subsequently processed as part of the leaf blend. The present invention eliminates the handling of RL as a leaf component and adds it into the blend as a cut filler in the same manner as ET and ES. At the end of the sheet making process slitters and cutters would be installed to produce shreds of RL to go directly into the blend, to eliminate the subsequent redrying of the RL thus reducing the load on the Adt dryers.

Inskeep

7-21-80	Disclosure received--assigned to Inskeep.
11-10-80	Work in progress.
2-17-81	Some results; more coming but not right away.
4-9-81	Process looking good; proceed.
5-18-81	To be discussed with F&N.

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980 A PROCESS TO ABATE THE PRESENCE OF TOBACCO PARTICLES FROM PACKAGE

C. Moogalian
Flavor Development/Daylor/Meyer

Abate the conspicuous presence of tobacco fines by placing plastic film on the inside of the package in contact with the tobacco end of the cigarettes so that the fines will be trapped by the electrostatic charge possessed by the film.

Blish

8-15-80	Disclosure received--inventor notified.
6-9-81	Inactivated.
6-29-81	Reactivated; manufacturing sending additional data.

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0000016109

Source: https://www.industrydocuments.ucsf.edu/docs/zsbj0000

981 FLAVORED NONTOBACCO FILLER THAT DOES NOT REQUIRE COMBUSTION FOR FLAVOR RELEASE

C. Moogalian
Flavor Development/Daylor/Meyer

This idea is a flavored non-tobacco filler that does not require combustion for flavor release, e.g., cellulose acetate tow which is flavored and contains a potential chemical heat and basic pH source. Materials such as tobacco resinoids and other selected flavorants, chemically or otherwise bound, would be used, such as nicotine in the form of its malate or sulfate salt, or flavor encapsulated in waxes. The flavor release could come from an activator which injects perhaps an acidic solution into the rod.

INACTIVE Inskeep

8-20-80	Disclosure received--inventor notified.
2-18-81	Reduction to practice still in future.
6-3-81	Inactivated pending receipt of new data.

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987 METHOD AND APPARATUS FOR DETECTING THE PRESENCE OF REQUIRED CIGARETTES AND FILTERS

R. Knight
Engineering/Tew/Hayward/Pasquine/Kay

The object of the invention is to detect the presence of the required number of cigarettes and filter, also check for sufficient tobacco in each and more reliably in one operation.

INACTIVE Sarofeen

9-11-80	Disclosure received--inventor notified.
9-17-80	Memo to Kay: do we proceed?
5-5-81	Inactivated due to close prior art.

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989 RESPONSE TO MENTHOL

E. Sanders
Chemical Research/Sanders/Osdene

Concerns the use of higher moisture levels in menthol cigarettes.

Palmer (Hutcheson)/to be reassigned

6-2-80	In-house search completed by B. Monroe and sent to inventors.
9-16-80	Disclosure received--inventor notified.
3-3-81	Memo to inventor suggesting discussing with Gauvin.

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0000016110

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

992 AUTOMATED DE-CHOKER DEVICE

J. Gregory III
Engineering/Pasquine/Kay

This invention replaces the existing fixed screen in the forming chimney of cigarette making machines with a rotary air screen which is normally flush with the fixed chimney wall. The device is estimated to increase machine utilization approximately two percent by eliminating down time from manual clearing of tobacco chokes. A tobacco feeder for supplying a number of cigarette makers utilizes a variable speed conveyor belt and a programable flap system to minimize tobacco recirculation and hence breakage when less than all makers are being supplied.

Blish

9-18-80	Disclosure received--inventor notified.
9-24-80	Assigned to Blish.
6-18-81	Prior art search completed.

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994 SELECTIVE FILTRATION

E. Sanders
Chemical Research/Sanders/Osdene

Inventor proposes modification to the cellulose backbone of the filter. Grafting of an alkyl carboxylic acid chain onto the cellulose would reduce the amount of nicotine in mainstream smoke; grafting of an alkyl amine onto the cellulose would enhance the nicotine; grafting an alkylthiol chain onto the cellulose would reduce the level of acrolein.

INACTIVE Inskeep

9-18-80	Disclosure received--inventor notified.
1-16-81	Further work still in the future.
4-9-81	Inactivated per E. Sanders.

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0000161111

Source: https://www.industrydocuments.ucsf.edu/docs/tsbj0000

997 FILTER ROD GROOVING TECHNIQUE

W. Mutter
Engineering Services/Mutter/Gannon

Related to 1001 and 1007.

Sarofeen

10-2-80	Disclosure received--inventor notified.
10-3-80	Letter to Kothe asking for analysis and opinion.
10-13-80	Torrente visit.
3-23-81	WLKT instructed not to do any further work on this case.
5-18-81	For discussion with F&N.
6-25-81	Needs to be coordinated with other Barclay-type cases.

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999 VARIABLE DILUTION FILTER

J. Adams
Engineering/Tew/Hayward/Kay/Pasquine

Object of the invention: to have the customer be able to control the proportions of the constituents received through the filter.

Blish

10-28-80	Disclosure received--inventor notified.
12-9-80	In-house search completed.
6-29-81	Results of prior art search evaluated and sent to inventor for review.

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ϕ00016112

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

1002 APPARATUS TO ARRANGE TOBACCO LEAVES IN PROPER ORIENTATION

D. Teng
Biomaterials/Whidby/Farone/Lowitz

This invention is for a device to arrange tobacco leaves in a proper orientation so that the tips of tobacco leaves can be mechanically removed (tipping) before the stems are removed. Loose tobacco leaves are placed on a first conveyor. As the leaves fall off from the first conveyor the heavier end (stem-end) will go down first. When the leaves get to the slanted bottom of the tower the stem ends will be directed toward frond. Leaves will be carried by a second conveyor already oriented in the same direction. When the leaves hit a third conveyor, which is slanted and running perpendicular to the second conveyor they will be even at the stem ends. They can go through the tipping machine in a properly oriented manner.

Blish
CODE 2
11-17-80 Disclosure received--inventor notified.
11-25-80 Search requested.
3-9-81 Search results to inventor for review.

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1003 CIGARETTE

T. Laszlo

A cigarette that would be a composite having a core of normal filler, surrounded by an outer layer of tobacco treated to be incapable of sustaining combustion if not being puffed. Thus, only the core would sustain static burning. Since the core would be "normal" it would restart the rest once puffing was resumed. But this arrangement would help to avoid fires caused by contact with fabrics.

Palmer
11-19-80 Disclosure received--inventor notified.
5-18-81 Memo to Kallianos.

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ϕ00016113

Source: https://www.industrydocuments.ucsf.edu/docs/zsbj0000

1004 APPLICATION OF SOLID TOBACCO FLAVOR COMPOUNDS TO TOBACCO

F. Sherwood, T. Skidmoore, J. Kliewer
Tobacco Services/Osmalov/Gannon

A tobacco flavor compound is dispersed in a standard tobacco casing or after-cut solution and subjected to high shear mixing to reduce the particle size of the compound. The mixing or homogenizing can be accomplished in any of several commercially available homogenizers. Once mixed the dispersion is sprayed onto tobacco using conventional spraying techniques.

Palmer

11-20-80	Disclosure received--inventors notified.
5-18-81	Awaiting results of development work; sending memo to that effect.

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1006 A. P. CAR INPUT AND OUTPUT

J. Long
Plant Engineering/Young/Dufilho/Taylor/Craighill

Object: Reduce spills of palletized loads of cased cigarettes during transition from a live roller conveyor to the stacker input station plus reduced maintenance and downtimw due to the absence of critical hydraulic cushioning adjustments required on the present design.

Blish

12-10-80	Disclosure received--inventor notified.
12-17-80	Assigned to Blish.
2-2-81	Disclosure reviewed with inventor; patentability search requested.
5-19-81	Search results to inventor for review.

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1008 CIGARETTE DETECTION AND REJECTION DEVICE

R. Ripley and R. Knight
Engineering/Tew/Hayward/Kay/Pasquine

The device has tappets able to slide axially against a spring biasing to bias the end of the cigarette and being adapted to trigger a control pulse if a cigarette is missing or faulty.

Blish

12-18-80	Disclosure received--inventors notified.
3-4-81	Inventors interviewed; in-house search requested.
4-29-81	Search results to inventor for review.

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Φ0000161114

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

1009 TIPPING PAPER WITH PRETREATED ADHESIVE

C. Hoelzel
Physical Research/Kassman/Farone/Lowitz

Palmer (Hutcheson)/to be reassigned
CODE 1
1-19-81 Oral disclosure to Hutcheson--inventor notified of PM number.
6-27-81 No formal written disclosure to date.

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1010 HEATED DIE FOR CARBONIZED MATERIAL WITH ESSENTIALLY CIRCULAR CROSS-SECTION

D. Full
Biomaterials/Whidby/Farone/Lowitz

Blish
CODE 4
1-21-81 Disclosure received--inventor notified.
6-8-81 Patentability search requested.

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1011 EXPANDED TOBACCO--PROCESS IMPROVEMENT

T. Laszlo

Palmer
1-22-81 Disclosure received--inventor notified.

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ϕ00016115

Source: https://www.industrydocuments.ucsf.edu/docs/esbj0000

1012 DENITRATION OF TOBACCO EXTRACT LIQUOR OR SOLID TOBACCO MATERIAL

B. Semp and D. Teng
Biomaterials/Whidby/Farone/Lowitz

A process for denitration of either tobacco extract liquor or solid tobacco materials has been developed which removes nitrate using bacteria which are naturally present on tobacco. The specific bacteria desired are selected from the total mixture of those present by heating the substrate to 55°C and allowing the desired strains to first grow and then denitrify, the high temperature suppressing undesirable micro-organisms. An increase in pH of the substrate to around 7 is desirable and can be facilitated if desired. The movement of the substrate is controlled to minimize unwanted side reactions.

Palmer (Hutcheson)/to be reassigned
CODE 2

1-26-81	Disclosure received--inventors notified.
4-13-81	Inventor Semp has indicated that experimental data generated at Park 500 is now available--preparation of the application may now proceed.
6-29-81	Experimental work in progress as Lancaster leaf.

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1013 SELF-CLEANING VACUUM PORT

E. Grollimund and D. Brookman
Engineering/Tew/Hayward/Pasquine/Kay

Blish

2-5-81	Disclosure received--inventors notified.
6-1-81	Prior art search requested.

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1014 JET INJECTORS

R. Jenkins, Jr.
Chemical Research/Sanders/Osdene

Use of modified "jet injectors" of the type used for human immunizations to add flavors and/or additives to the cigarette rod on the conventional cigarette making machine prior to the cutting of the rod to cigarette length.

Palmer (Hutcheson)/to be reassigned

2-13-81	Disclosure received--inventor notified.
2-81	Searchs conducted by TIF and B. Monroe.
2-16-81	Discussed British 1342931 with inventor. He plans to try out the injection device and will follow-up if he feels it's warranted.

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ϕ00016116

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

1015 BURN CONTROL AGENTS

R. Jenkins, Jr.
Chemical Research/Sanders/Osdene

Addition of burn control agents to the central region of a cigarette to reduce sidestream visibility and gaseous smoke. The reduced visibility would improve consumer and non-smoker acceptance.

Palmer (Hutcheson)/to be reassigned
2-13-81 Disclosure received--inventor notified.

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1020 FLUTED FILTER HOLDER

M. Garthaffner
Engineering/Tew/Hayward/Kay/Pasquine

This filter holder holds a filter cigarette against a rubber seal which is installed in the insert. In doing so it seals the rear of the filter except for a 4 mm diameter hole through which smoke is drawn. The rubber seal prevents a by-pass of the filter.

Blish
2-25-81 Disclosure received--inventor notified.

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1021 ACOUSTICAL PANELS

A. Uhler, Jr.
Engineering/Tew/Hayward/Kay/Pasquine

Object of the invention is to prevent tobacco beetle infestation by using 20 mesh screen in an acoustic absorption panel and yet allowing maximum sound absorption.

Blish
2-25-81 Disclosure received--inventor notified.

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Φ0001611 7

Source: https://www.industrydocuments.ucsf.edu/docs/esbj0000

1022 ACOUSTICAL BAFFLES

A. Uhler, Jr.
Engineering/Tew/Hayward/Kay/Pasquine

Object of the invention is to prevent tobacco beetle infestation by use of spunbonded olefin, which is a tough and cleanable and allows good sound absorption, as a facing material on an acoustical absorber.

Blish
2-25-81 Disclosure received--inventor notified.

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1023 TOBACCO CUTTER DIAMOND PATTERN

R. Lanier and R. DeVilbiss
Engineering/Tew/Hayward/Kay/Pasquine

Objects of the invention are to achieve uniformity in size, to produce a smooth edge when cut, to minimize scrap, and to reduce operational cost.

Blish
2-25-81 Disclosure received--inventors notified.

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1024 ROTARY SAW BLADE SHEET CUTTER

R. Thatcher and J. Tomanovits
Engineering/Tew/Hayward/Kay/Pasquine

Sarofeen
2-25-81 Disclosure received--inventors notified.
4-12-81 Outside search requested of Kirk & Smith.
6-20-81 Search received and results to Kay for review.

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1025 TOBACCO EXTRACTOR

FTR

Palmer (Hutcheson)/to be reassigned
12-19-80 Disclosure received.
3-5-81 Assigned to Hutcheson.

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ϕ0000161118

Source: https://www.industrydocuments.ucsf.edu/docs/zsbj0000

1026 TOBACCO TREATMENT (PROTEIN REMOVAL)

H. Gaisch, Ghiste, D. Schulthess
FTR

The invention relates to a process for the preparation of tobacco into which initially insoluble protein components and protein subunits are decomposed into soluble protein fragments by enzymatic treatment and then the soluble components are dissolved in water and the solution obtained is separated from the treated tobacco and tobacco prepared by this process.

Palmer (Hutcheson)/to be reassigned
2-3-81 Disclosure received.
3-5-81 Assigned to Hutcheson
6-27-81 Recommend sending translation to F&N for assessment.

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1027 OXIDATION OF TOBACCO IN PRESENCE OF POLYVALENT METAL BASE

N. Rainer
Tobacco Materials/Burns/Gannon

Objects/advantages: increased CV of tobacco filler by virtue of a stiffening effect; low processing cost; no attritional degradation; no species added foreign to tobacco.

Related to 983.

Palmer (Hutcheson)/to be reassigned
3-4-81 Disclosure received--inventor notified.

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1028 SHUTTLE ASSEMBLY

J. Long
Plant Engineering/Tew/Hayward

Object of the invention is to reduce spills of palletized loads of cased cigarettes due to table deflection and excessive speed and rough transport, reduce wear of roller ways, reduce horsepower and make moving parts more accessible for preventive maintenance and replacement.

Sarofeen
3-4-81 Disclosure received--inventor notified.
6-25-81 Evaluation in progress.

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Φ0000161119

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

1029 METHOD FOR MAKING SOLUBLE CARBOXAMIDE DERIVATIVES

E. Sanders
Chemical Research/Sanders/Osdene

Palmer (Hutcheson)/to be reassigned
3-10-81 Disclosure made orally with notes to Hutcheson--inventor notified of PM number.

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1031 FLAVOR SPRAY NOZZLE ASSEMBLIES

R. Rosemond (hourly)
Maintenance/Taylor/Remington

Objects of the invention include to give better atomization of the flavoring, improve tobacco heating and absorption qualities for the taking of the flavor, eliminate wet spots, and reduce maintenance.

Blish
3-16-81 Disclosure received--inventor notified.
4-15-81 Disclosure reviewed with inventor.
6-15-81 Patentability search requested from K&S.

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1032 IMPROVED PROCESS FOR MAKING 2-SUBSTITUTED PYRROLINES AND PYRROLIDINES

H. Secor
Chemical Research/Sanders/Osdene

Process provides for the preparation of a variety of new and known compounds by a simplified procedure to give 2-substituted pyrrolines and 2-substituted pyrrolidines.

Inskeep
3-24-81 Disclosure received--inventor notified.

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00001612O

Source: https://www.industrydocuments.ucsf.edu/docs/esbj0000

1033 ROD-LIKE SMOKING ARTICLE WITH SECONDARY AIR CHANNELS AND APPARATUS FOR PRODUCING SUCH AN ARTICLE

FTR

The invention relates to a rod-like, smoking article with a rod-like mouthpiece core at the mouth end of a tobacco rod, the entire periphery of said mouthpiece core being enveloped by an adhered wrapping paper which is suitable for contact with the lips and which overlappingly follows a covering paper surrounding the tobacco rod and with secondary air channels covered by the wrapping paper on the periphery of the mouthpiece core and an apparatus for producing such an article.

Sarofeen

4-8-81	Disclosure received.
5-18-81	For discussion with F&N.
6-24-81	Needs to be coordinated with other Barclay-type cases.

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1034 APPARATUS FOR STAMPING OPEN CHANNELS IN THE PERIPHERY OF FILTER PORTIONS

FTR

The invention relates to an apparatus for impressing or stamping open channels into the periphery of rod-like, peripherally thermally deformable filter portions of smokers' requisites transported in troughs arranged coaxially to the rotation axis and equidistantly on the periphery of a trough conveyor driven in rotary manner and stamped with heated stamping dies. Such filter portions can be produced by extruding in the form of a strand and subsequently dividing into portions.

Sarofeen

4-8-81	Disclosure received.
5-18-81	For discussion with F&N.
6-24-81	Needs to be coordinated with other Barclay-type cases.

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ϕ00016121

Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

1035 ROD-LIKE SMOKING ARTICLES WITH A FILTER ROD AT THE MOUTH END AND APPARATUS FOR PRODUCING SUCH AN ARTICLE

FTR

The invention relates to a rod-like, smoking article with a filter rod at the mouth end of a tobacco rod, said filter rod having over its entire periphery a wrapping paper suitable for contact with the lips, which is overlappingly connected to a wrapper surrounding the tobacco rod and has on its periphery secondary air channels covered by the wrapping paper and an apparatus for producing such an article.

Sarofeen
4-8-81 Disclosure received.
5-18-81 For discussion with F&N.
6-24-81 Needs to be coordinated with other Barclay-type cases.

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1036 PROCESS FOR THE PREPARATION OF MENTHANE AND MENTHOL

S. Haut
Chemical Research/Sanders/Osdene

Palmer/Unassigned
4-13-81 Disclosure received--inventor notified.

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1037 MECHANICAL DEVICE FOR UNTYING KNOTS IN BURLAP TOBACCO SHEETS

R. Devilbiss
Engineering/Hayward/Kay/Pasquine

Palmer/Unassigned
4-13-81 Disclosure received--inventor notified.

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1041 METHOD FOR MEASURING THE FILLING CAPACITY OF TOBACCO

N. Rainer and J. Hearn

Tobacco Materials/Burns/Gannon

Palmer/Unassigned
4-28-81 Disclosure received--inventor notified.

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ϕ0000016122

Source: https://www.industrydocuments.ucsf.edu/docs/zsbj0000

1042 SELF-CLEANING POROSITY MONITOR GAGING HEAD

E. Grollimund
Engineering/Pasquine/Kay

Palmer/Unassigned
4-29-81 Disclosure received--inventor notified.

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1043 APPLICATION OF TOBACCO DUST TO EXPANDED STEM

J. Knight
Engineering/Pasquine/Kay

Palmer/Unassigned
5-5-81 Disclosure received--inventor notified.

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1044 METHOD FOR DETERMINING THE STIFFNESS OF TOBACCO

N. Rainer, J. Hearn, C. McClung
Tobacco Materials/Gannon/Burns

Palmer/Unassigned
5-5-81 Disclosure received--inventor notified.

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1046 METHOD OF LOWERING METAL TO ANION RATIO IN PAPER

R. Green
New Products/Gauvin/Meyer

Normal sodium citrate applied to wrapper with extra citric acid added to the coating solution such that the solution becomes substantially acid. This coating results in increased molar ratios of citrate to metal. It is believed that this change in the cation to anion ratio results in lower CO and CO per puff delivery. The cation to anion ratio is normally 3:1. Results obtained so far have been for ratios from 1.43:1 to 5.861. These results follow a pattern similar to that for humic acid dye additions. This then should apply to both removal of the metal by washing and to lowering the metal to anion ratio of the burn additive.

Palmer/Unassigned
5-20-81 Disclosure received--inventor notified.

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0000016123

Source: https://www.industrydocuments.ucsf.edu/docs/zsbj0000

1048 A PROCESS FOR THE EXPANSION OF BRIGHT FILLER

E. Mooz
Biomaterials/Whidby/Farone/Lowitz

Related to 1038-1040.

A process for the expansion of bright filler with ammonium carbamate and with no puffing agent before and after cylinder treatment.

Inskeep
CODE I
6-15-81 Disclosure received--inventor notified.
6-17-81 Disclosure to F&N for evaluation with respect to 1038-1040.

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1049 SLIDING VALVE CHAMBER

R. Hale
Flavor Development/Daylor/Meyer

A sliding valve flavor chamber installed in the filter of a cigarette that will release flavors to the smoker on demand (puffing).

Blish
6-15-81 Disclosure received--inventor notified.

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1050 VARIABLE FLOW RATE FILTERS

W. Gannon and J. Remington
R&D/Engineering

Novel configuration for a filter which comprised a movable damper (flap) which would remain closed during low flow-rate smoking, thus allowing the majority of the puff to draw in air only. Such a damper would be placed at the junction of the tobacco rod and the filter which would consist of an annulus of cellulose acetate around a hollow core. While the damper would remain closed at 1050 cc, higher flow rates (above 2000 cc) would cause the damper to swing backward and thus allow fresh smoke to enter the mouth.

Palmer/Unassigned
6-18-81 Disclosure received--inventors notified.

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0000016124

Source: https://www.industrydocuments.ucsf.edu/docs/esbj0000

1051 VACUUM BELT STRIPPER SHOE

W. Mutter
Engineering Services/Mutter/Gannon

Palmer/Unassigned
6-12-81 Disclosure received--inventor notified.

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1052 POSITIVE PLUG FEED SYSTEM

M. Barden, W. Pettigrew, A. Collins
Engineering/Hayward/Kay/Pasquine

Object: to produce additional force that will assist a stream of plugs into a hopper against resistance.

Palmer/Unassigned
6-26-81 Disclosure received--inventor notified.

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1054 A NOVEL METHOD FOR DETERMINING PUFF PROFILES ON FTR TAR OF LOW DELIVERY CIGARETTES

E. Thomas
Analytical/Bourlas/Farone/Lowitz

Palmer/Unassigned
6-29-81 Disclosure discussed with Blish.

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Source: https://www.industrydocuments.ucsf.edu/docs/sbj0000

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Source: https://www.industrydocuments.ucsf.edu/docs/zsbj0000